

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L538 055489-1559 - Diesel Engine

Sample No: LH0273550

Oil Type: LIEBHERR MOTOROIL 10W-40



Sample Information

Sample Number	LH0273550	---	---	---
Sample Date	08 May 2024	---	---	---
Machine Hours	4169	---	---	---
Oil Hours	4169	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

CHESAPEAKE BAY

2201 MINGEE DR.

HAMPTON, VA

US 23661

Contact: SERVICE MANAGER



Oil Condition

Visc @ 100°C	cSt	13.2	---	---	---
Base Number (BN)	mg KOH/g	5.4	---	---	---
Oxidation (PA)	%	90	---	---	---

T: (757)827-4778

F: (757)827-0978



Contamination

Water	%	NEG	---	---	---
Soot %	%	0.4	---	---	---
Nitration (PA)	%	102	---	---	---
Sulfation (PA)	%	67	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	8	---	---	---
Sodium	ppm	2	---	---	---
Potassium	ppm	11	---	---	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



Wear Metals

Iron	ppm	42	---	---	---
Copper	ppm	6	---	---	---
Lead	ppm	20	---	---	---
Tin	ppm	1	---	---	---
Aluminum	ppm	4	---	---	---
Chromium	ppm	<1	---	---	---
Molybdenum	ppm	24	---	---	---
Nickel	ppm	<1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	<1	---	---	---



Additives

Calcium	ppm	1506	---	---	---
Magnesium	ppm	582	---	---	---
Zinc	ppm	961	---	---	---
Phosphorus	ppm	875	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	33	---	---	---

Depot: CHEHAMLH

Unique No: 11075066

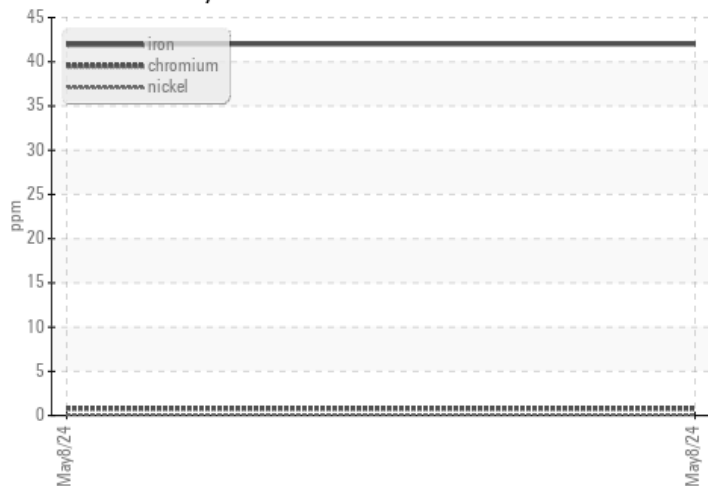
Signed: Angela Borella

Report Date: 14 Jun 2024

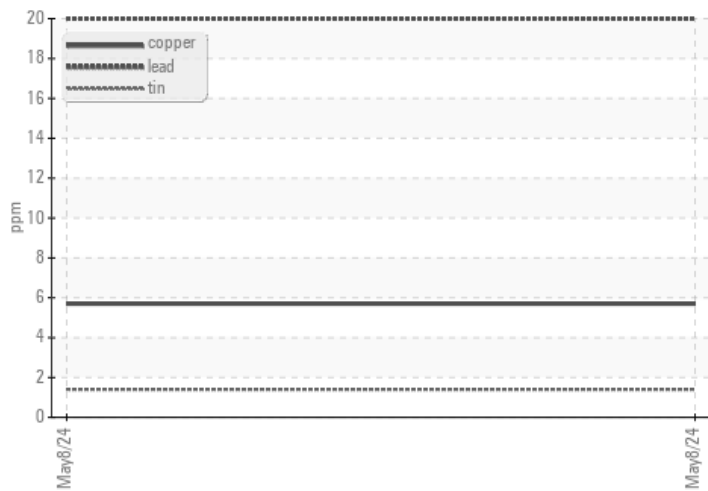


Graphs

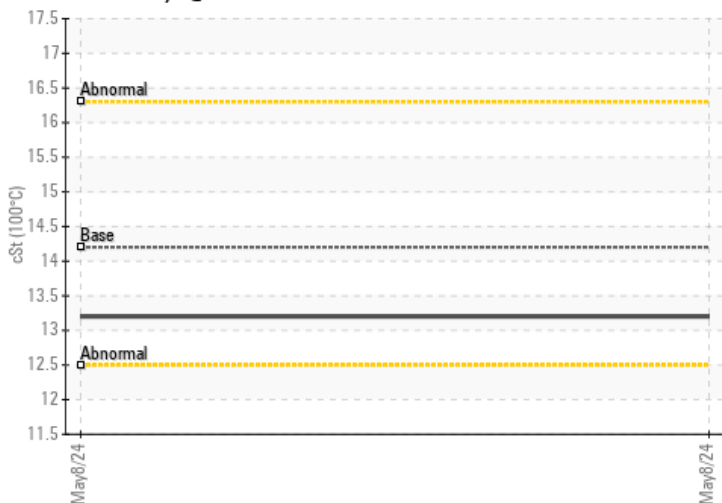
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

